

JCL/JCS Requirements and Examples

This section describes the job control information required to run ADACMP with BS2000, OS/390 or z/OS, VM/ESA or z/VM, and VSE/ESA systems and shows examples of each of the job streams.

Note:

When the recovery log is active, sequential datasets used by the utilities whose runs are logged on the RLOG must be kept and made available for any recovery operation; for example, the DD/EBAND input to an ADALOD LOAD operation.

This chapter covers the following topics:

- User Exits with ADACMP
- BS2000
- OS/390 or z/OS
- VM/ESA or z/VM
- VSE/ESA

User Exits with ADACMP

Compression with User Exit

User exit 6 can be used to perform user processing on a record before it is processed by the ADACMP COMPRESS utility. See the *Adabas DBA Reference* documentation for more information.

If user exit 6 is to be used during ADACMP execution, the specified user exit routine must be loadable at execution time; that is, it must be assembled and linked into the Adabas

- load library (or any library concatenated with it) for BS2000, OS/390, VM/ESA.
- core image library or any library contained in the core image library search chain for VSE/ESA.

The ADACMP COMPRESS utility job must specify:

```
ADARUN UEX6 = exit-name
```

where

<i>exit-name</i>	is the name of a user routine that gets control at the user exit; the name can be up to 8 characters long.
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Collation with User Exit

If a collation user exit is to be used during ADACMP execution, the ADARUN CDX nn parameter must be specified for the utility run.

Used in conjunction with the universal encoding support (UES), the format of the collation descriptor user exit parameter is:

```
ADARUN CDX $nn$ = exit-name
```

where

<i>nn</i>	is the number of the collation descriptor exit, a two-digit decimal integer in the range 01-08 inclusive.
<i>exit-name</i>	is the name of the user routine that gets control at the collation descriptor exit; the name can be up to 8 characters long.

Only one program may be specified for each collation descriptor exit. Up to 8 collation descriptor exits may be specified (in any order). See the *Adabas DBA Reference* documentation for more information.

BS2000

Dataset	Link Name	Storage	More Information
User input data (COMPRESS function)	DDEBAND	tape/ disk	
Compressed data (DECOMPRESS function)	DDEBAND	tape/ disk	Not used if the parameter INFILE is used
Compressed data (COMPRESS function)	DDAUSBA	tape/ disk	
Decompressed data (DECOMPRESS function)	DDAUSBA	tape/ disk	
Rejected data	DDFEHL	tape/ disk	
ECS encoding objects	DDECSOJ	tape/ disk	Required for universal encoding support (UES)
ADARUN parameters	SYSDTA/ DDCARD		<i>Operations</i>
ADACMP parameters and data definitions	SYSDTA/ DDKARTE		<i>Utilities</i>
ADARUN messages	SYSOUT/ DDPRINT	printer/ disk	<i>Messages and Codes</i>
ADACMP report	SYSLST/ DDDRUCK	printer/ disk	<i>Messages and Codes</i>

JCL Examples (BS2000)

ADACMP COMPRESS

In SDF Format:

```

/.ADACMP LOGON
/MODIFY-TEST-OPTIONS DUMP=YES
/REMARK *
/REMARK * A D A C M P COMPRESS
/REMARK *
/DELETE-FILE CMP.AUS
/SET-JOB-STEP
/DELETE-FILE CMP.FEHL
/SET-JOB-STEP
/CREATE-FILE CMP.AUS,PUB( SPACE=( 48,48 )
/SET-JOB-STEP
/CREATE-FILE CMP.FEHL,PUB( SPACE=( 48,48 )
/SET-JOB-STEP

/ASS-SYSLST L.CMP
/ASS-SYSDTA *SYSCMD
/SET-FILE-LINK DDLIB,ADAvrs.MOD
/SET-FILE-LINK DDEBAND,CMP.EIN
/SET-FILE-LINK DDAUSBA,CMP.AUS
/SET-FILE-LINK DDFEHL,CMP.FEHL
/START-PROGRAM *M(ADA.MOD,ADARUN),PR-MO=ANY
ADARUN PROG=ADACMP,DB=yyyyyy,IDTNAME=ADABAS5B
ADACMP COMPRESS NUMREC=1000,FDT=1,USERISN,DEVICE=dddd,eeee
/LOGOFF SYS-OUTPUT=DEL

```

In ISP Format:

```

/.ADACMP LOGON
/OPTION MSG=FH,DUMP=YES
/REMARK *
/REMARK * A D A C M P COMPRESS
/REMARK *
/ER CMP.AUS
/STEP
/ER CMP.FEHL
/STEP
/SYSFILE SYSLST=L.CMP
/FILE ADA.MOD,LINK=DDLIB
/FILE CMP.EIN,LINK=DDEBAND
/FILE CMP.AUS,LINK=DDAUSBA,SPACE=( 48,48 )
/FILE CMP.FEHL,LINK=DDFEHL,SPACE=( 48,48 )
/EXEC (ADARUN,ADA.MOD)
ADARUN PROG=ADACMP,DB=yyyyyy,IDTNAME=ADABAS5B
ADACMP COMPRESS NUMREC=1000,FDT=1,USERISN,DEVICE=dddd,eeee
/LOGOFF NOSPOOL

```

ADACMP DECOMPRESS

In SDF Format:

```

/.ADACMP LOGON
/MODIFY-TEST-OPTIONS DUMP=YES
/REMARK *
/REMARK * A D A C M P DECOMPRESS
/REMARK *

```

```

/DELETE-FILE CMP.AUS
/SET-JOB-STEP
/DELETE-FILE CMP.FEHL
/SET-JOB-STEP
/CREATE-FILE CMP.AUS,PUB( SPACE=( 48,48) )
/SET-JOB-STEP
/CREATE-FILE CMP.FEHL,PUB( SPACE=( 48,48) )
/SET-JOB-STEP
/ASS-SYSLST L.DEC
/ASS-SYSDTA *SYSCMD
/SET-FILE-LINK DDLIB,ADAvrs.MOD
/SET-FILE-LINK DDEBAND,CMP.EIN
/SET-FILE-LINK DDAUSBA,CMP.AUS
/SET-FILE-LINK DDFEHL,CMP.FEHL
/START-PROGRAM *M(ADA.MOD,ADARUN),PR-MO=ANY
ADARUN PROG=ADACMP,DB=yyyyyy,IDTNAME=ADABAS5B
ADACMP DECOMPRESS
/LOGOFF SYS-OUTPUT=DEL

```

In ISP Format:

```

/.ADACMP LOGON
/OPTION MSG=FB,DUMP=YES
/REMARK *
/REMARK * A D A C M P DECOMPRESS
/REMARK *
/ER CMP.AUS
/STEP
/ER CMP.FEHL
/STEP
/SYSFILE SYSLST=L.CMP.DEC

/FILE ADA.MOD,LINK=DDLIB
/FILE CMP.EIN,LINK=DDEBAND
/FILE CMP.AUS,LINK=DDAUSBA,SPACE=( 48,48)
/FILE CMP.FEHL,LINK=DDFEHL,SPACE=( 48,48)
/EXEC (ADARUN,ADA.MOD)
ADARUN PROG=ADACMP,DB=yyyyyy,IDTNAME=ADABAS5B
ADACMP DECOMPRESS
/LOGOFF NOSPOOL

```

OS/390 or z/OS

Dataset	DD Name	Storage	More Information
User input data (COMPRESS function)	DDEBAND	tape/ disk	
Compressed data (DECOMPRESS function)	DDEBAND	tape/ disk	Not used if the parameter INFILE is specified
Compressed data (COMPRESS function)	DDAUSBA	tape/ disk	
Decompressed data (DECOMPRESS function)	DDAUSBA	tape/ disk	
Rejected data	DDFEHL	tape/ disk	
ECS encoding objects	DDECSOJ	tape/ disk	Required for universal encoding support (UES)
ADACMP report	DDDRUCK	printer	
ADARUN messages	DDPRINT	printer	
ADARUN parameters	DDCARD	reader	
ADACMP parameters and data definitions	DDKARTE	reader	

JCL Examples (OS/390 or z/OS)

In the MVSJOBS dataset, refer to ADACMP for the COMPRESS example and ADACMPD for the DECOMPRESS example.

ADACMP COMPRESS

```
//ADACMP    JOB
//*
//*    ADACMP COMPRESS
//*    COMPRESS A FILE
//*
//CMP      EXEC PGM=ADARUN
//STEPLIB  DD  DISP=SHR,DSN=ADABAS.Vvrs.LOAD      <=== ADABAS LOAD
//*

//DDDRUCK  DD  SYSOUT=X
//DDPRINT  DD  SYSOUT=X
//SYSUDUMP DD  SYSOUT=X
//DDEBAND  DD  DISP=OLD,DSN=EXAMPLE.DByyyyy.INPUT,UNIT=TAPE, <===
//          VOL=SER=TAPE01                                <===
//DDAUSBA  DD  DISP=(NEW,KEEP),DSN=EXAMPLE.DByyyyy.COMP01,UNIT=DISK, <==
//          VOL=SER=DISK01,SPACE=(TRK,(200,10),RLSE)
//DDFEHL   DD  DISP=(NEW,KEEP),DSN=EXAMPLE.DByyyyy.FEHL,UNIT=DISK, <===
//          VOL=SER=DISK01,SPACE=(TRK,1)
//DDCARD   DD  *
ADARUN  PROG=ADACMP,MODE=MULTI,SVC=xxx,DEVICE=dddd,DBID=yyyyy
//*
//DDKARTE  DD  *
```

```

ADACMP COMPRESS FILE=1
ADACMP FNDEF='01,AA,008,B,DE'
ADACMP FNDEF='01,BA,020,A,NU,DE'
ADACMP FNDEF='01,BB,015,A,NU,DE'
ADACMP FNDEF='01,BC,001,A,FI'
ADACMP FNDEF='01,CA,001,A,NU,DE'
ADACMP FNDEF='01,CB,002,U,NU,DE'
ADACMP FNDEF='01,CC,010,A,NU,DE'
ADACMP FNDEF='01,CD,002,U,NU,DE'
ADACMP FNDEF='01,DA,005,U,NU'
ADACMP FNDEF='01,DB,020,A,NU,DE'
ADACMP FNDEF='01,DC,015,A,NU,DE'
ADACMP FNDEF='01,DD,002,A,NU,DE'
ADACMP FNDEF='01,DE,005,U,NU,DE'
ADACMP FNDEF='01,DF,008,A,NU,DE'
ADACMP FNDEF='01,FA,020,A,NU,DE'
ADACMP FNDEF='01,FB,006,U,NU,DE'
ADACMP FNDEF='01,FC,006,U,NU'
ADACMP FNDEF='01,GA,002,U,NU'
ADACMP FNDEF='01,HA,002,U,NU'
ADACMP FNDEF='01,IA,002,U,NU'

ADACMP FNDEF='01,KA,002,U,NU'
ADACMP FNDEF='01,LA,030,A,NU,DE'
ADACMP SUBDE='SB=DE(3,5)'
ADACMP SUPDE='SP=CA(1,1),CB(1,2),CD(1,2)'
ADACMP PHONDE='PA(BA)'
/*

```

ADACMP DECOMPRESS

```

//ADACMP      JOB
//*
//*      ADACMP COMPRESS
//*      DECOMPRESS A FILE
//*
//DECMP      EXEC PGM=ADARUN
//STEPLIB    DD  DISP=SHR,DSN=ADABAS.Vvrs.LOAD      <=== ADABAS LOAD
//*
//DDASSOR1   DD  DISP=SHR,DSN=EXAMPLE.DByyyyyy.ASSOR1 <=== ASSO
//DDDATAR1   DD  DISP=SHR,DSN=EXAMPLE.DByyyyyy.DATAR1 <===DATA
//DDWORKR1   DD  DISP=SHR,DSN=EXAMPLE.DByyyyyy.WORKR1 <===WORK
//DDDRUCK    DD  SYSOUT=X
//DDPRINT    DD  SYSOUT=X
//SYSUDUMP   DD  SYSOUT=X
//DDEBAND    DD  DISP=OLD,DSN=EXAMPLE.DByyyyyy.COMP01,UNIT=TAPE,
//           VOL=SER=TAPE01
//DDAUSBA    DD
DISP=(NEW,KEEP),DSN=EXAMPLE.DByyyyyy.DECOMP01,UNIT=DISK,==
//           VOL=SER=DISK01,SPACE=(TRK,(200,10),RLSE)
//DDFEHL     DD  DISP=(NEW,KEEP),DSN=EXAMPLE.DByyyyyy.FEHL,UNIT=DISK,
=
//           VOL=SER=DISK01,SPACE=(TRK,1)
//DDCARD     DD  *
ADARUN PROG=ADACMP,MODE=MULTI,SVC=xxx,DEVICE=dddd,DBID=yyyyy
/*
//DDKARTE    DD  *
ADACMP DECOMPRESS INFILE=1
00000100
/*

```

VM/ESA or z/VM

Dataset	DD Name	Storage	More Information
User input data (COMPRESS function)	DDEBAND	tape/ disk	
Compressed data (DECOMPRESS function)	DDEBAND	tape/ disk	Not used if the parameter INFILE is specified
Compressed data (COMPRESS function)	DDAUSBA	tape/ disk	
Decompressed data (DECOMPRESS function)	DDAUSBA	tape/ disk	
Rejected data	DDFEHL	tape/ disk	
ECS encoding objects	DDECSOJ	tape/ disk	Required for universal encoding support
ADACMP report	DDDRUCK	disk/ terminal/ printer	
ADARUN messages	DDPRINT	disk/ terminal/ printer	
ADARUN parameters	DDCARD	disk/ terminal/ reader	
ADACMP control cards and data definitions	DDKARTE	disk/ terminal/ reader	

JCL Example (VM/ESA or z/VM)

ADACMP COMPRESS

```

DATADEF DDEBAND,DSN=FILE015.CMPD015,MODE=A
DATADEF DDAUSBA,DSN=FILE015.LODD015,MODE=A
DATADEF DDFEHL,DSN=FILE015.CMPERROR,MODE=A
DATADEF DDDRUCK,DSN=ADACMP.DDDRUCK,MODE=A
DATADEF DDPRINT,DSN=ADACMP.DDPRINT,MODE=A
DATADEF DUMP,DUMMY
DATADEF DDCARD,DSN=RUNCMP.CONTROL,MODE=A
DATADEF DDKARTE,DSN=FILE001.CMPC015,MODE=A
ADARUN

```

Contents of RUNCMP CONTROL A1:

```
ADARUN PROG=ADACMP,DEVICE=dddd,DB=yyyyyy
```

Contents of FILE001 CMPC015 A1:

```
ADACMP COMPRESS
NUMREC=1000,FDT=1,USERISN,DEVICE=dddd,eeee
```

VSE/ESA

File	File Name	Storage	Logical Unit	More Information
User input data (COMPRESS function)	EBAND	tape disk	SYS010 *	
Compressed data (DECOMPRESS function)	EBAND	tape disk	SYS010 *	Not used if parameter INFILE is specified
Compressed data (COMPRESS function)	AUSBA	tape disk	SYS016 *	
Decompressed data (DECOMPRESS function)	AUSBA	tape disk	SYS016 *	
Rejected data	FEHL	tape disk	SYS017 *	
ECS encoding objects	ECSOJ	tape disk	SYS020 *	Required for universal encoding support
ADACMP report	-	printer	SYS009	
ADARUN messages	-	printer	SYSLST	
ADARUN parameters	- CARD CARD	reader tape disk	SYSRDR SYS000 *	
ADACMP control cards and data definitions	-	reader	SYSIPT	

* Any programmer logical unit may be used.

JCS Examples (VSE/ESA)

See Procedures for VSE/ESA Examples for descriptions of the VSE procedures.

Refer to member ADACMP.X for the COMPRESS example and member ADACMPD.X for the DECOMPRESS example.

ADACMP COMPRESS

```

* $$ JOB JNM=ADACMP,CLASS=A,DISP=D
* $$ LST CLASS=A,DISP=D
*      COMPRESS A FILE
// JOB ADACMP
// EXEC PROC=ADAVvLIB
// EXEC PROC=ADAVvFIL
// ASSGN SYS010,TAPE
// PAUSE MOUNT LOAD INPUT FILE ON TAPE cuu
// TLBL EBAND,'EXAMPLE.DByyyyy.UNCOMP01'
// MTC REW,SYS010
// DLBL AUSBA,'EXAMPLE.DByyyyy.COMP01',,SD
// EXTENT SYS016,,,,sssss,nnnnn
// ASSGN SYS016,DISK,VOL=DISK01,SHR
// DLBL FEHL,'EXAMPLE.DByyy.FEHL',,SD
// EXTENT SYS017,,,,sssss,nnnnn
// ASSGN SYS017,DISK,VOL=DISK02,SHR
// EXEC ADARUN,SIZE=ADARUN
ADARUN PROG=ADACMP,MODE=MULTI,SVC=xxx,DEVICE=dddd,DBID=yyyyy
/*
ADACMP COMPRESS FILE=1
ADACMP FNDEF='01,AA,008,B,DE'
ADACMP FNDEF='01,BA,020,A,NU,DE'
ADACMP FNDEF='01,BB,015,A,NU,DE'
ADACMP FNDEF='01,BC,001,A,FI'
ADACMP FNDEF='01,CA,001,A,NU,DE'
ADACMP FNDEF='01,CB,002,U,NU,DE'
ADACMP FNDEF='01,CC,010,A,NU,DE'
ADACMP FNDEF='01,CD,002,U,NU,DE'
ADACMP FNDEF='01,DA,005,U,NU'
ADACMP FNDEF='01,DB,020,A,NU,DE'
ADACMP FNDEF='01,DC,015,A,NU,DE'
ADACMP FNDEF='01,DD,002,A,NU,DE'
ADACMP FNDEF='01,DE,005,U,NU,DE'
ADACMP FNDEF='01,DF,008,A,NU,DE'
ADACMP FNDEF='01,FA,020,A,NU,DE'
ADACMP FNDEF='01,FB,006,U,NU,DE'
ADACMP FNDEF='01,FC,006,U,NU'

ADACMP FNDEF='01,GA,002,U,NU'
ADACMP FNDEF='01,HA,002,U,NU'
ADACMP FNDEF='01,IA,002,U,NU'
ADACMP FNDEF='01,KA,002,U,NU'
ADACMP FNDEF='01,LA,030,A,NU,DE'
ADACMP SUBDE='SB=DE(3,5)'
ADACMP SUPDE='SP=CA(1,1),CB(1,2),CD(1,2)'
ADACMP PHONDE='PA(BA)'
/*
/&
* $$ EOJ

```

ADACMP DECOMPRESS

```

* $$ JOB JNM=ADACMPD,CLASS=A,DISP=D
* $$ LST CLASS=A,DISP=D
*      DECOMPRESS A FILE
// JOB ADACMPD
// EXEC PROC=ADAVvLIB
// EXEC PROC=ADAVvFIL
// ASSGN SYS010,TAPE
// PAUSE MOUNT LOAD INPUT FILE ON TAPE cuu

```

```
// TLBL EBAND,'EXAMPLE.DByyyyy.COMP01'  
// MTC REW,SYS010  
// DLBL AUSBA,'EXAMPLE.DByyyyy.DECOMP01',,SD  
// EXTENT SYS016,,,,sssss,nnnnn  
// ASSGN SYS016,DISK,VOL=DISK01,SHR  
// DLBL FEHL,'EXAMPLE.DByyy.FEHL',,SD  
// EXTENT SYS017,,,,sssss,nnnnn  
// ASSGN SYS017,DISK,VOL=DISK02,SHR  
*  
* *****  
*      REMEMBER TO CUSTOMIZE PARAMETERS OF ADABAS UTILITY  
* *****  
// EXEC ADARUN,SIZE=ADARUN  
ADARUN PROG=ADACMP,MODE=MULTI,SVC=xxx,DEVICE=dddd,DBID=yyyyy  
/*  
ADACMP DECOMPRESS INFILE=1  
/*  
/&  
* $$ EOJ
```